

Fig. 1

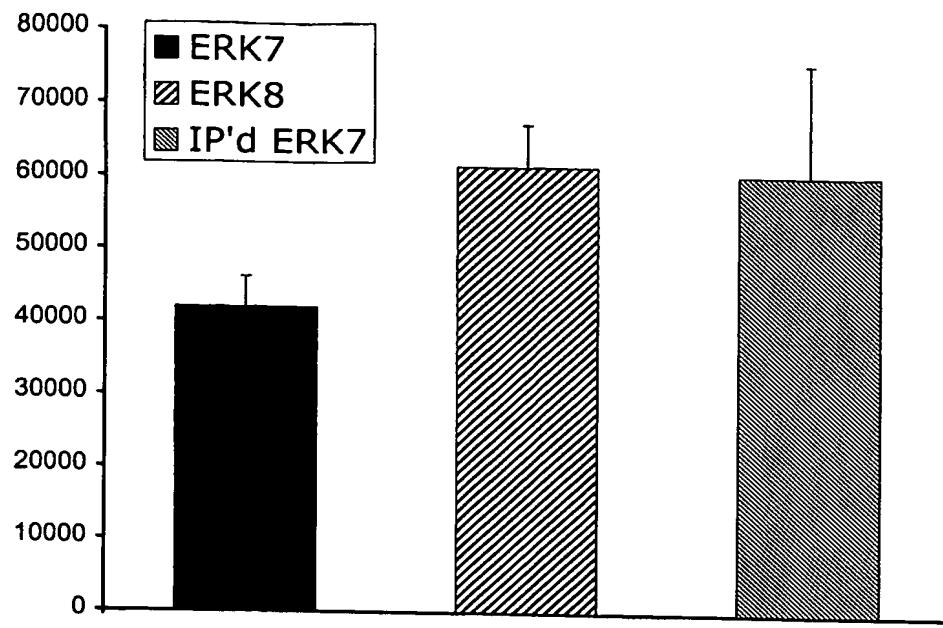


Fig. 2

Fig. 3

Rat ERK7  
Mouse ERK7  
Human ERK8

Rat ERK7  
Mouse ERK7  
Human ERK8

EIMLLREFGGHPNIRLLDVIAPAKNDRDIYLVFEFSMDTDLNAVIQKGRLLEDIHKRCIFY 120  
 EIMLKFEFGGHPNIRLLDVIAPAKNDRDIYLVFEFSMDTDLNAVIQKGRLLDIHKRCIFY 120  
 EITLQEEGDHPNISLLDVIARAENDRDIYLVFEFMDTDLNAVIRKGGLLQDVHVRSIYF 119  
 \* \* \* \* . \* \* \* \* . \* \* \* \* . \* \* \* \* . \* \* \* \* . \* \* \* \* . \* \* \* \* . \* \* \* \*

Rat ERK7  
Mouse ERK7  
Human ERK8

Rat ERK7  
Mouse ERK7  
Human ERK8

TRWYRAPEVLLSSRWYTPGVDMWSLGCILGEMLRGQPLFPGTSTFHQELELLIETIPLPSM 240  
TRWYRAPEVLLSSRWYTPGVDMWSLGCILGEMLRGQPLFPGTSTFHQELELLIETIPLPSM 240  
TRWYRAPEVLLSSRWYTLGVDMWSLGCILGEMLRGRLPFGTSTLHQLELLIETIPPS 239

	rat ERK7	mouse ERK7	human ERK8
GenBank ID	NM_004900	NM_004901	NM_004902

EEELQIGSDYSALLQNLGSRPRQTLDAALLPPDTPEALDLKRLAFAPEQL 300  
EEELQDIGSDYSALLQNLGSRPRQTLDAALLPPDTPEALDLKRLAFAPEQL 300  
EDLLAIGSGCRASVHLQLSRPRQTLDAALLPPDTSPEALDLRLLVFAPEQL 299  
\*\*\*\*\*

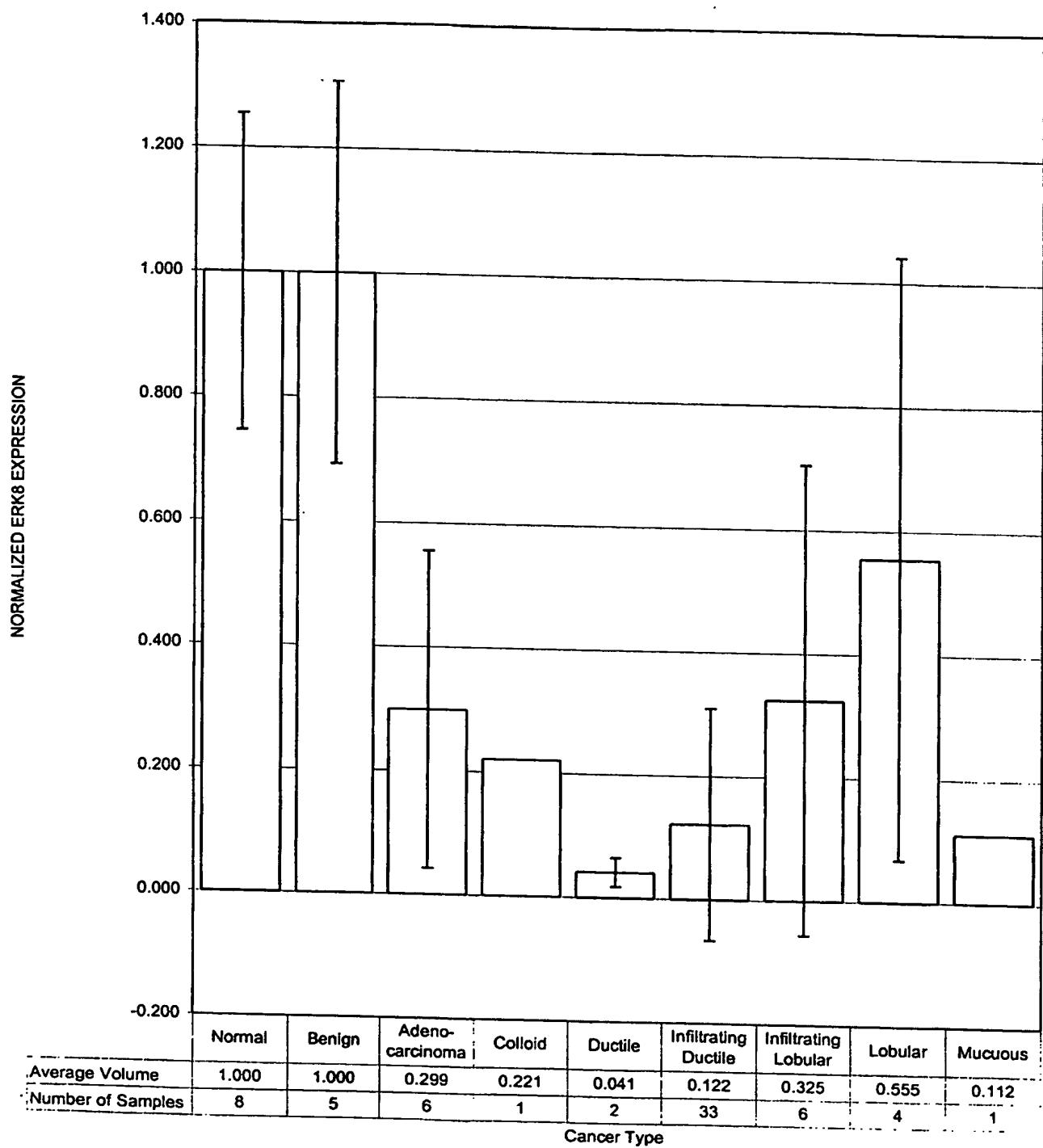
at ERK7  
ouse ERK7  
uman ERK8

DHPVQREHCPDREWTRGSDVRLPVHEGDQLSAPEYRNRLYQMIILERRRNSRSPRED-L 359  
DHPVQREHCPDREWRESDVRLPVHEGDQLSAPEYRKRLYQIILEQSGNRSRSPREG-L 359  
DHPVQREHCPDSWAREADVPRRAHEGVQLSVPEYRSRVYQMLECGSSGTSREKGPE 359

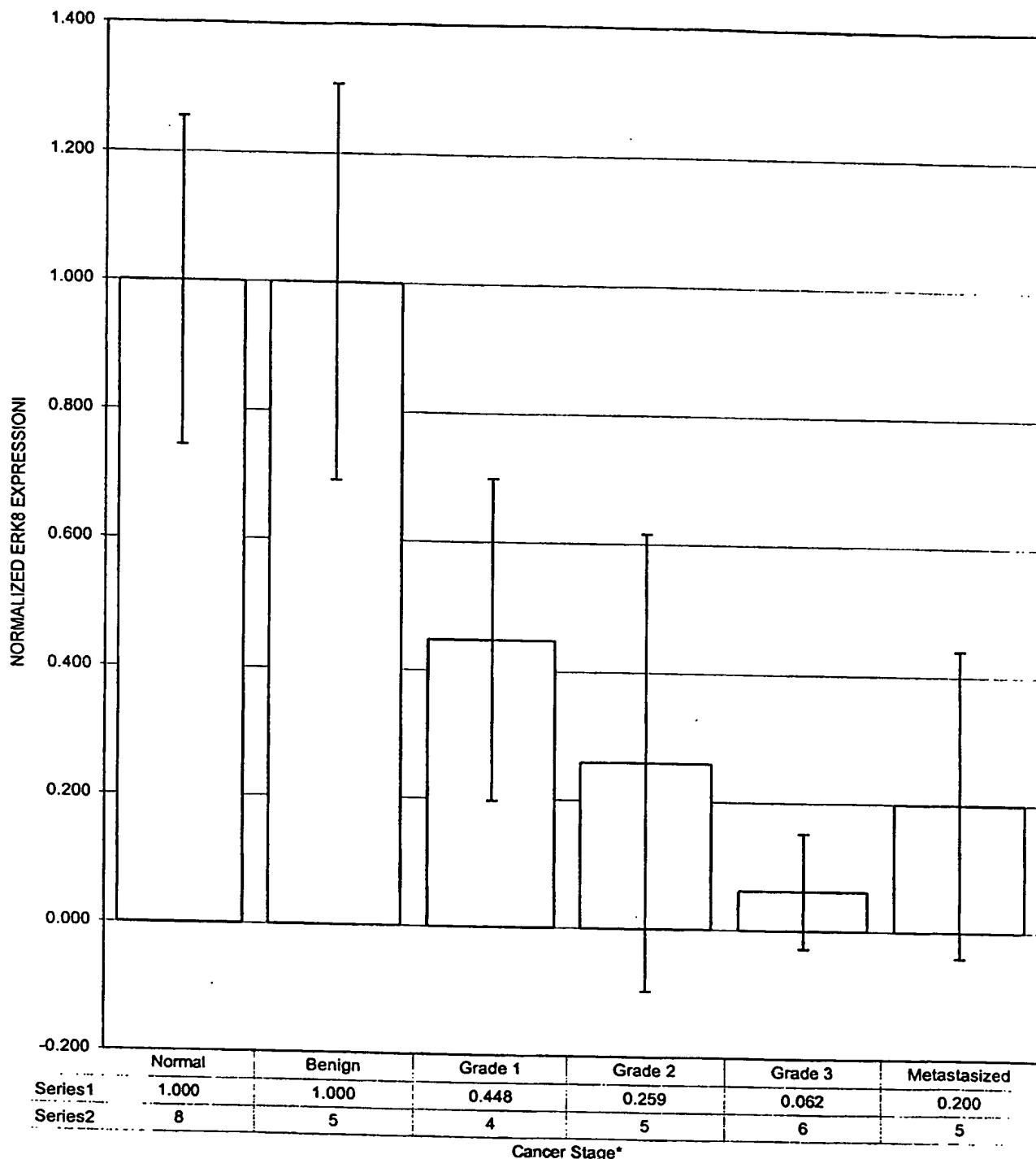
Fig. 3 (continued)

## CLUSTAL W (1.82) Multiple Sequence Alignments

**Fig. 4 Erk8 Expression in Different Breast Cancers**



**Fig. 5 Erk8 Expression in Breast Cancers of Different Grades**



\*Cancer Types: Adenocarcinoma, Colloid, Infiltrating Ductal, Infiltrating Lobular, & Lobular

Fig. 6

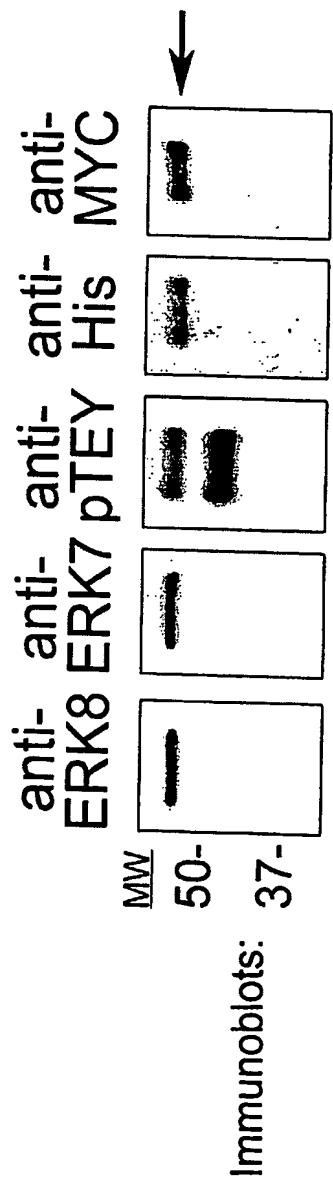


Fig. 7

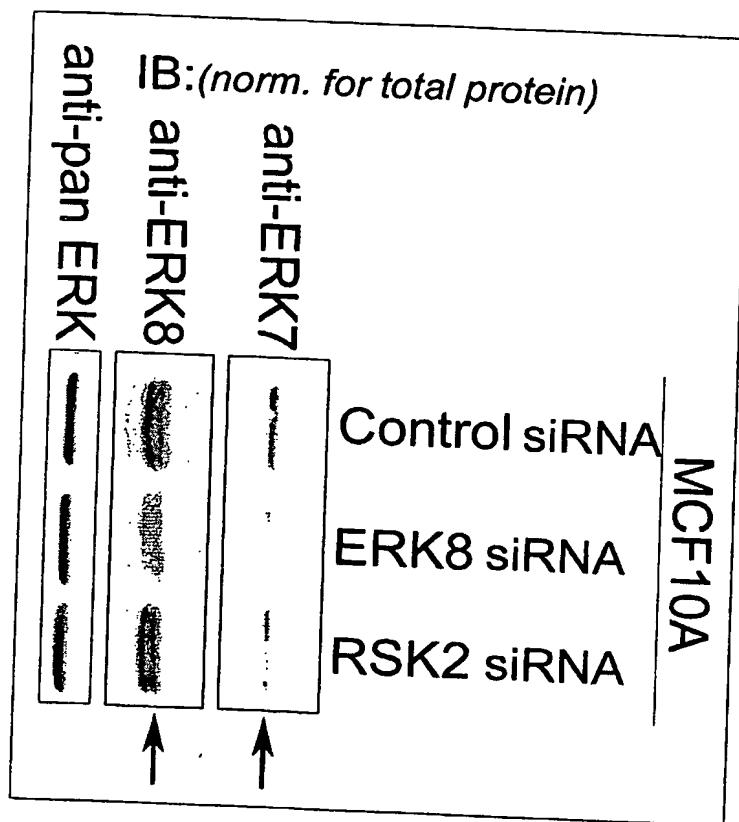


Fig. 8

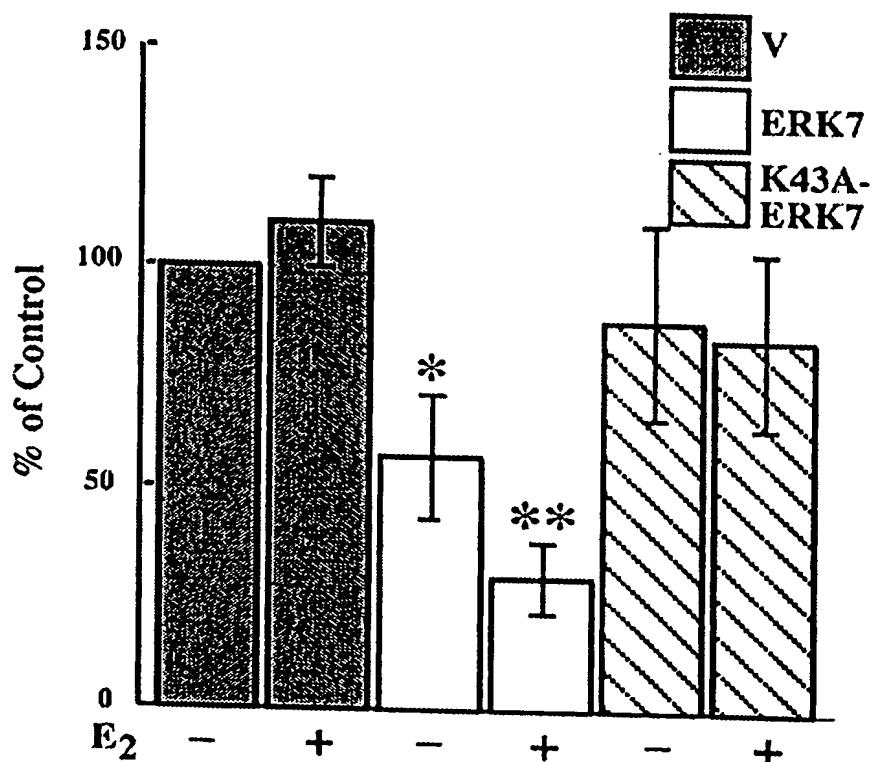


Fig. 9A

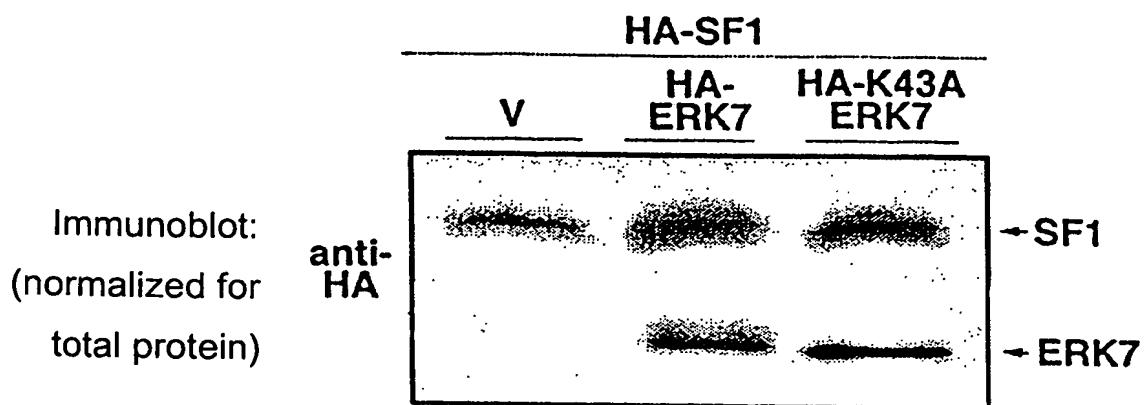


Fig. 9B

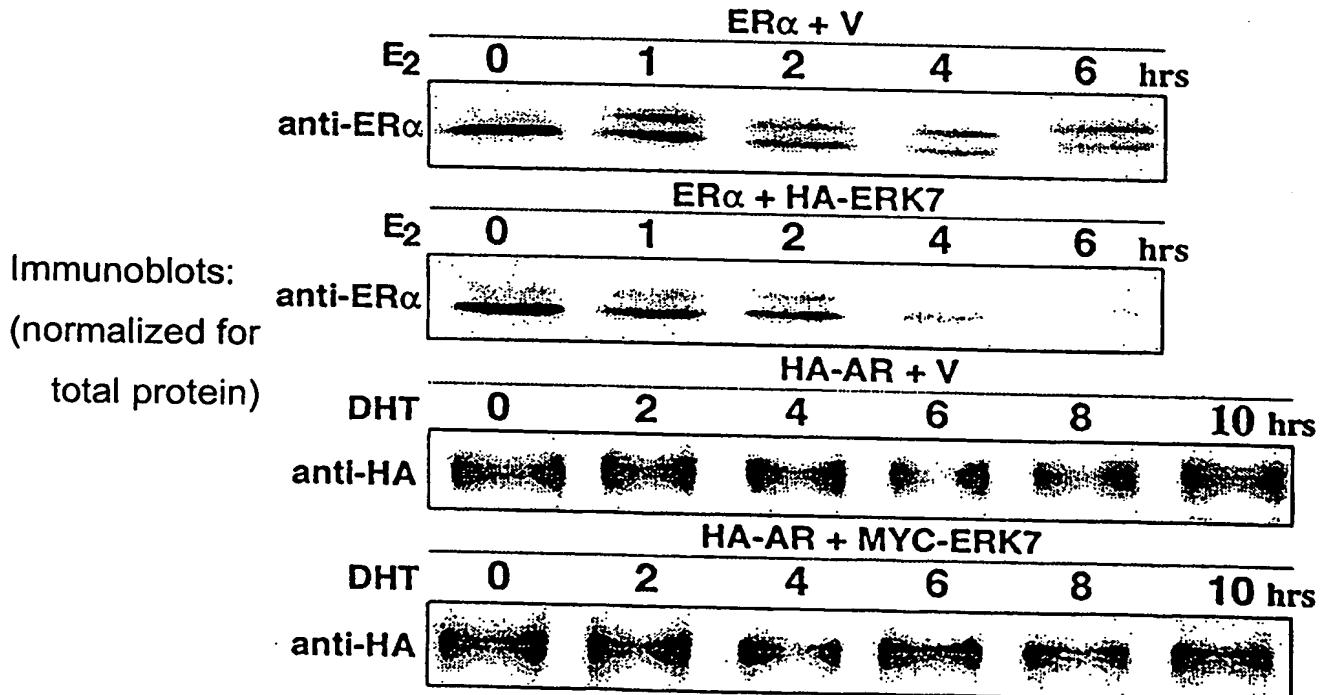


Fig. 10A

Immunoblots:  
(normalized for  
total protein)

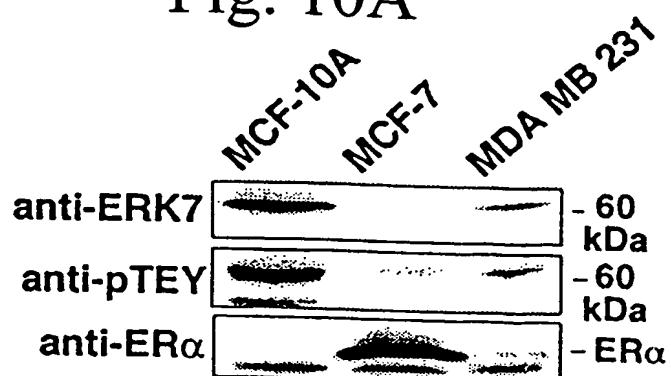


Fig. 10B

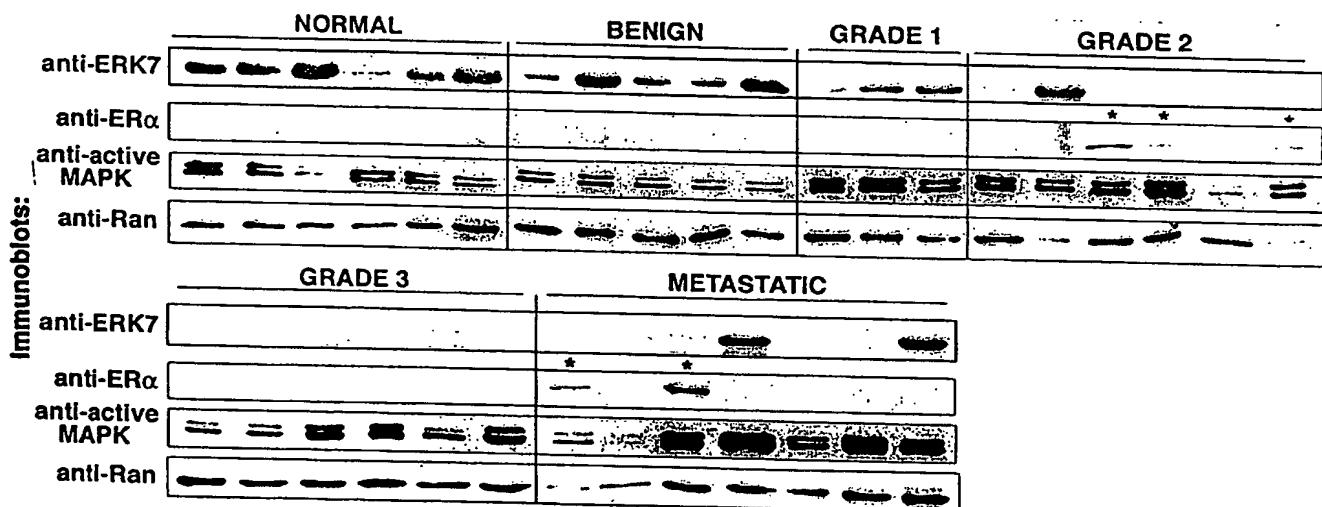


Fig. 11

